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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/506,747

09/03/2004

Liu Yuzhang

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ERICSSON INC.
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EXAMINER

GAY, SONIA L

ART UNIT

PAPER NUMBER

2614

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DELIVERY MODE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/506,747	Applicant(s) YUZHANG, LIU	
	Examiner SONIA GAY	Art Unit 2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 September 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11, 13- 17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11, 13- 17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>09/03/2004, 12/12/2006</u> . | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

This action is in response to Application no. 10/506747 submitted on 09/03/2004 in which claims 1 -11 and 13 - 17 are presented for examination.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1 - 11 and 13- 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Couturier (US 6,683,868) in view of Grech and Unmehopa (Using Open Service Access to Enable Mobile Internet Applications in UMTS Networks), and further in view of ETSI (Universal Mobile Telecommunications System (UMTS): Virtual Home Environment/Open Service Architecture), and further in view of Ekstrom et al. (US 6,148,069).

3. For claims 1 and 13, Couturier discloses a method of and arrangement for the provisioning of services via a telecommunications network, comprising:

service provisioning equipment (column 1 lines 38 – 46);

an application server (column 1 lines 30 - 37);

at least two service switching points (SSP) for setting up communications connections between users and service provisioning equipment (column 1 lines 38 - 46; column 2 lines 1-6; column 5 lines 20 - 25);

wherein the method comprises:

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responsive to a request from a user for a user interaction sequence, an application on the an application server forwarding the request (column 4 lines 34 – 38);

notifying a network element of the service provisioning equipment location (column 5 lines 24 – 32); and,

instructing the network element to connect the user to the service provisioning equipment via the at least two switching points (column 2 lines 1-6; column 5 lines 20 – 25, 33 – 43).

Yet, Couturier fails to teach

at least two service capability servers (SCS) for providing services to the users comprising a call control service capability server (CCSCS) and a user interaction service capability server (UISCS), wherein the CCSCS passes a request for a user interaction sequence to an application running on an application server;

an application on an application server forwarding the request to a user interaction service capability server (UISCS);

UISCS being instructed to reserve a port on a service provisioning equipment to perform the user interaction sequence, inform the application of the post reservation, notify the CCSCS of the service provisioning equipment location and instruct the CCSCS to connect the user to the service provisioning equipment via the at least two service switching points.

However, Grech and Unmehopa disclose a method and arrangement comprising at least two service capability interfaces, call control service and user interaction service capability interfaces, and a network element wherein the call control service capability interface passes a

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request for a user interaction sequence from the network element to an application on an application server which forwards the request to a user interaction server capability interface (pg. 343 paragraph 2) and the network element for the purpose of provisioning a service, including playing an announcement and collecting a response, in a telecommunications system similar to the system disclosed in Couturier where a gateway enables the development and deployment of services that are independent from the topology of the transport network (Couturier, column 3 lines 18 – 23; Grech and Unmehopa, pg. 342 column 1 paragraph 2 and pg. 343 column 1 paragraph 3).

Moreover, ETSI discloses a method and system comprising a call control /user interaction service capability interfaces and call control/user interaction service capability services wherein the call control/user interaction service capability interfaces are coupled to call control/user interface service capability servers which can be implemented in the same physical entities as the traditional network entities (5.1 Overview of the Open Service Access, pgs. 8 – 10) i.e. HLR (Home Location Register) for the purpose of provisioning a service in a telecommunications system similar to the system disclosed in Couturier where a gateway enables the development and user of services that are independent from the topology of the transport network (Couturier, column 3 lines 18 – 23; ETSI, 5.1 Overview of the Open Service Access, pgs. 8 – 10).

Additionally, Ekstrom et al. discloses a method and a system wherein a first network element reserves a port on the service provisioning equipment, notifies a second network element of the location of the service provisioning equipment, and instructs the second network element to connect the user to the service provisioning equipment (column 5 lines 18 – 44) for the

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purpose of processing a call using an intelligent peripheral by setting up a voice path between the user and service provisioning equipment (*Abstract*; column 5 lines 44 – 47, 50 – column 6 line 5).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicants invention to modify the teachings disclosed in Couturier with the teachings of Grech and Unmehopa, ETSI, and Ekstrom et al. wherein the gateway disclosed above in Couturier would include call control/user service capability interfaces coupled to call control/user interface service capability services located in the traditional network elements/entities disclosed above in Couturier for the following purposes of: passing the request to an application, reserving a port on the service provisioning equipment to perform the user interaction sequence, informing the application of the port reservation, and notifying and connecting the user to the service provisioning equipment via the at least two service switching points.

For claims 2 - 11, 14 - 17, the teachings of Couturier, Grech and Unmehopa, and Ekstrom et al. further disclose,

wherein said interaction sequence comprises exchanging of instructions (Grech and Unmehopa, pg. 343 column 2 paragraph 2).

wherein said instructions trigger the establishing of a communication link between a user and the service provisioning equipment of the said telecommunications system (Grech and

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Unmehopa, pg. 343 column 2 paragraph 2; Couturier, column 2 lines 1-6; column 5 lines 20 – 25, 33 – 43; Ekstrom et al. column 5 lines 18 - 47).

wherein prior to said direct interaction between the at least two service capability servers involved, at least one of said service capability servers instructs the service provisioning equipment to reserve at least one communication port for establishing said communication link (Grech and Unmehopa, pg. 343 column 2 paragraph 2; Ekstrom et al., column 5 lines 19 - 27).

wherein following upon said direct instruction between said service capability servers , one of said service capability servers instructs one of the least two service switching point to establish a connection with said service provisioning equipment (Grech and Unmehopa, pg. 343 column 2 paragraph 2; Ekstrom et al., column 5 lines 42 – 43; Couturier column 5 lines 20 – 25, 33 – 43).

wherein said establishing of a communication link is the establishing of a speech channel (Ekstrom et al. column 5 lines 44 -45).

reporting the establishment of said communication link to one of the said service capability servers involved in the provisioning service (Grech and Unmehopa, pg. 343 column 2 paragraph 2).

one of said service capability servers instructing the service provisioning equipment to perform an interaction sequence (Grech and Unmehopa, pg. 343 column 2 paragraph 2).

wherein said service provisioning equipment reports the results of said user interaction sequence to the one of said server capability servers (Grech and Unmehopa, pg. 343 column 2 paragraph 2; Ekstrom et al. column 5 lines 5 - 10, column 6 lines 17 - 25).

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upon receiving the results of the user interaction, the application instructing the UISCs to close the connection between the user and the provisioning service equipment (Grech and Unmehopa, pg. 343 column 2 paragraph 2; Ekstrom et al., column 4 lines 48 - 53).

a resource server, such as a media server, and wherein said interaction between said service capability servers triggers the setup and disconnection of the communication link between the user and said resource user (Couturier, column 2 lines 1-12; Ekstrom et al., column 5 lines 19 - 46).

wherein the telecommunications system is a universal mobile telecommunications system (UMTS) (Grech and Unmehopa, pg. 341 Abstract).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SONIA GAY whose telephone number is (571)270-1951. The examiner can normally be reached on Monday to Thursday from 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on (571) 272-7488. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sonia Gay/
Examiner, Art Unit 2614

September 5, 2008

/Ahmad F MATAR/
Supervisory Patent Examiner, Art Unit 2614